



June 2008

**DEPARTMENT OF EDUCATION**  
2007–2008 School Year Reports

Dear School Board Members and School Personnel:

The Maine Educational Assessment (MEA) is the State's measure of student progress in achieving the State standards known as *Learning Results*, adopted by the Maine Legislature in 1997. These *Learning Results* established goals for what all students should know and be able to do at certain times in their school careers and are the basis for Grade Level/Span Expectations, which describe the assessment standards for each grade. The MEA is administered to students in all grades 3 through 8 to meet state assessment requirements and the requirements of the federal *No Child Left Behind Act*.

The 2007-2008 MEA summary reports contain the results of student achievement in reading and mathematics at all grades, science and technology at grades 4 and 8, and writing at grade 5 based on achievement standards set in 2006 and disaggregated by student and school characteristics. This report, together with MEA individual student and subject-specific class analysis reports, provides support for use in program evaluation and planning.

MEA results reflect scores based on test questions that are taken in common by the approximately 15,000 students in each grade level. Students' scores in each content area are based on answers to a combination of multiple-choice questions and questions that require students to construct an answer. The grade 5 writing reports provide information on a student's ability to respond to a prompt measuring narrative writing. More information about the design of the MEA is available at [www.maine.gov/education/mea/index.htm](http://www.maine.gov/education/mea/index.htm).

I look forward to working with you in support of our continued efforts to improve the quality and effectiveness of the instructional opportunities designed to help all students achieve the high standards of the *Learning Results* and demonstrate that achievement through performance on the Maine Educational Assessment.

Sincerely,

Susan A. Gendron  
Commissioner of Education



## School Report Grade 8

Test Date: March 2008  
Code: 12141551  
SAU: MSAD 20  
School: Fort Fairfield Middle/High Sch

### Contents of the Report

The report is divided into two main sections including a section describing the students tested and a separate section for the results in each content area.

<i>Topic</i>	<i>Page</i>
Summary of Scores .....	2
Summary of Student Participation .....	3
English Language Arts – Reading Results .....	4-6
Mathematics Results .....	7-9
Science and Technology Results .....	10-12

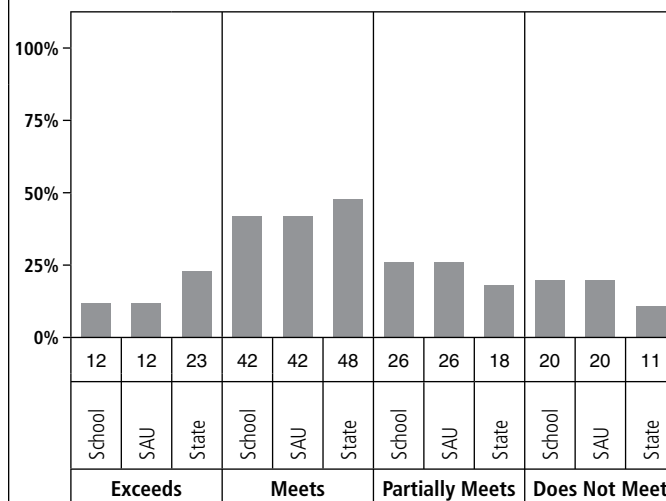
# SUMMARY OF SCORES

Test Date: March 2008  
Grade: 8  
SAU: MSAD 20  
School: Fort Fairfield Middle/High Sch

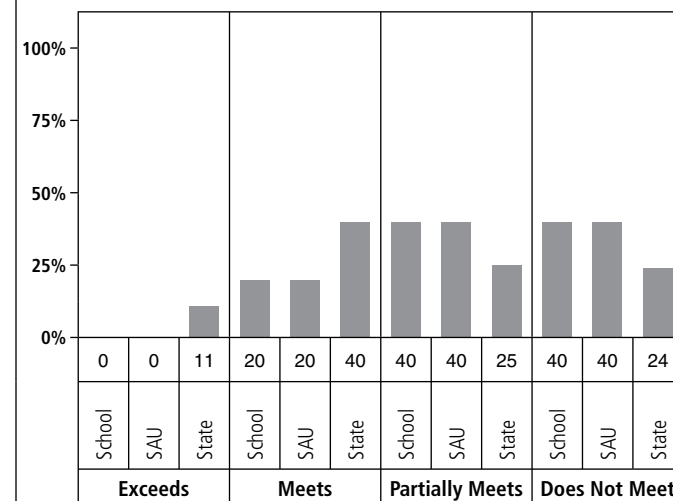
## Summary of School, SAU, and State Scores

Year	Average Scaled Score		
	School	SAU	State
<b>ELA – Reading</b>			
2005–2006	844	844	845
2006–2007	845	845	847
<b>2007–2008</b>	<b>842</b>	<b>842</b>	<b>849</b>
Cum. Avg. *	844	844	847
<b>Mathematics</b>			
2005–2006	839	839	840
2006–2007	835	835	842
<b>2007–2008</b>	<b>831</b>	<b>831</b>	<b>841</b>
Cum. Avg. *	835	835	841
<b>Science &amp; Technology</b>			
2005–2006	845	845	846
2006–2007	841	841	847
<b>2007–2008</b>	<b>841</b>	<b>841</b>	<b>847</b>
Cum. Avg. *	842	842	847

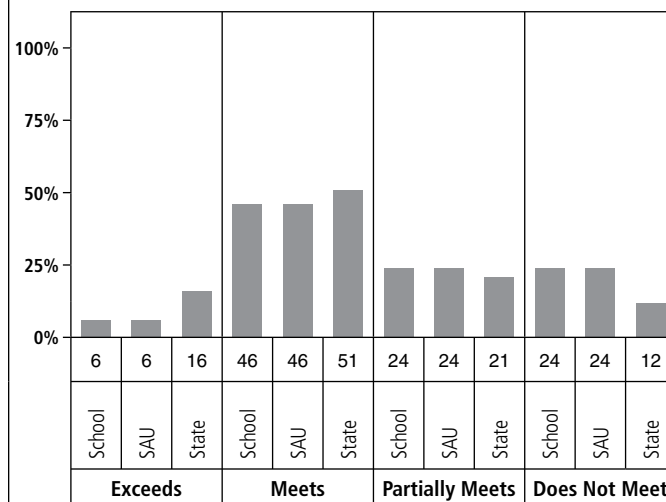
## ELA – READING



## MATHEMATICS



## SCIENCE AND TECHNOLOGY



\*Cumulative averages are weighted, i.e., the scaled scores are averaged proportionally based on the numbers of students in each year.

# SUMMARY OF STUDENT PARTICIPATION

Test Date: March 2008  
 Grade: 8  
 SAU: MSAD 20  
 School: Fort Fairfield Middle/High Sch

CATEGORY OF PARTICIPATION	Enrollment <sup>1</sup> during testing window						CONTENT AREA PARTICIPATION <sup>2</sup>																							
							ELA-Reading						Mathematics						Science and Technology											
	School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Total number of students	54	100	54	100	15274	100	51	94	51	94	15102	99	51	94	51	94	15097	99	51	94	51	94	15080	99						
Ethnicity African American/Black	1	2	1	2	368	2	1	100	1	100	356	97	1	100	1	100	360	98	1	100	1	100	356	97						
American Indian or Native Alaskan	0	0	0	0	120	1	0	0	0	0	117	98	0	0	0	0	117	98	0	0	0	0	117	98						
Asian or Pacific Islander	0	0	0	0	186	1	0	0	0	0	181	97	0	0	0	0	182	98	0	0	0	0	182	98						
Hispanic	0	0	0	0	139	1	0	0	0	0	136	98	0	0	0	0	136	98	0	0	0	0	136	98						
Caucasian/White	53	98	53	98	14461	95	50	94	50	94	14312	99	50	94	50	94	14302	99	50	94	50	94	14289	99						
Not Reported	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Identified disability	10	19	10	19	2508	16	9	90	9	90	2446	98	9	90	9	90	2441	98	9	90	9	90	2431	98						
Current LEP	0	0	0	0	327	2	0	0	0	0	316	97	0	0	0	0	322	99	0	0	0	0	322	99						
Economically disadvantaged	25	46	25	46	5420	35	22	88	22	88	5329	99	22	88	22	88	5324	99	22	88	22	88	5313	98						
Migrant	0	0	0	0	7	0	0	0	0	0	7	100	0	0	0	0	7	100	0	0	0	0	7	100						

MODE OF PARTICIPATION <sup>3</sup>	ELA-Reading						Mathematics						Science and Technology											
	School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Participation without accommodations	43	80	43	80	12703	83	43	80	43	80	12694	83	43	80	43	80	12710	83						
Identified disability (PET/IEP)	1	2	1	2	437	3	1	2	1	2	421	3	1	2	1	2	445	4						
LEP	0	0	0	0	172	1	0	0	0	0	172	1	0	0	0	0	173	1						
504 plan	2	5	2	5	229	2	2	5	2	5	231	2	2	5	2	5	230	2						
Participation with accommodations	7	13	7	13	2221	15	7	13	7	13	2227	15	7	13	7	13	2197	14						
Identified disability (PET/IEP)	7	100	7	100	1832	82	7	100	7	100	1844	83	7	100	7	100	1813	83						
LEP	0	0	0	0	136	6	0	0	0	0	143	6	0	0	0	0	142	6						
504 plan	0	0	0	0	68	3	0	0	0	0	66	3	0	0	0	0	66	3						
Other	0	0	0	0	213	10	0	0	0	0	202	9	0	0	0	0	204	9						
Participation through alternate assessment (PAAP)	1	2	1	2	177	1	1	2	1	2	176	1	1	2	1	2	173	1						
Identified disability (PET/IEP)	1	100	1	100	177	100	1	100	1	100	176	100	1	100	1	100	173	100						
LEP	0	0	0	0	7	4	0	0	0	0	7	4	0	0	0	0	7	4						
504 plan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Approved non-participation in reading – 1st year LEP	0	0	0	0	1	0																		
Approved non-participation – special consideration	0	0	0	0	32	0	0	0	0	0	34	0	0	0	0	0	34	0						
Non-participation – other	3	6	3	6	140	1	3	6	3	6	143	1	3	6	3	6	160	1						

<sup>1</sup> Percents are the percentage of students enrolled in each participation category.

<sup>2</sup> Percents are the percentage of students, including those who participated through alternate assessment (PAAP), who participated in the content area.

<sup>3</sup> Percents are the percentage of students in each content area by mode.

# ELA–READING RESULTS

Test Date: March 2008  
Grade: 8  
SAU: MSAD 20  
School: Fort Fairfield Middle/High Sch

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
<b>Exceeds the Standards</b> – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing in-depth inferences, analyzing texts for subtle clues, synthesizing information across texts, and using his/her knowledge of text features and literary devices to make deeper connections within or across texts to increase comprehension. (scaled score 861–880)	2005-2006	5	13	5	13	2695	17
	2006-2007	5	12	5	12	2407	16
	<b>2007-2008</b>	<b>6</b>	<b>12</b>	<b>6</b>	<b>12</b>	<b>3428</b>	<b>23</b>
	Cum. Total*	16	12	16	12	8530	18
<b>Meets the Standards</b> – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing inferences, summarizing main ideas and providing supporting details, connecting ideas within and across texts, and using his/her knowledge of text features and literary devices to increase comprehension. (scaled score 841–860)	2005-2006	19	49	19	49	6830	42
	2006-2007	19	45	19	45	7494	49
	<b>2007-2008</b>	<b>21</b>	<b>42</b>	<b>21</b>	<b>42</b>	<b>7179</b>	<b>48</b>
	Cum. Total*	59	45	59	45	21503	46
<b>Partially Meets the Standards</b> – The student’s work demonstrates an inconsistent ability to read and interpret literary and informational texts appropriate for the grade level. The student’s ability to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, and use his/her knowledge of text features and literary devices varies depending on the texts. (scaled score 829–840)	2005-2006	6	15	6	15	3741	23
	2006-2007	13	31	13	31	3628	24
	<b>2007-2008</b>	<b>13</b>	<b>26</b>	<b>13</b>	<b>26</b>	<b>2706</b>	<b>18</b>
	Cum. Total*	32	24	32	24	10075	22
<b>Does Not Meet the Standards</b> – The student’s work demonstrates a limited ability to read and interpret literary and informational texts appropriate for the grade level. The student’s responses are often vague or incorrect leaving the impression that the student found it difficult to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, or use his/her knowledge of text features and literary devices to support comprehension. (scaled score 800–828)	2005-2006	9	23	9	23	3003	18
	2006-2007	5	12	5	12	1810	12
	<b>2007-2008</b>	<b>10</b>	<b>20</b>	<b>10</b>	<b>20</b>	<b>1611</b>	<b>11</b>
	Cum. Total*	24	18	24	18	6424	14

Learning Results Content Standard Cluster	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
<b>Total Reading Cluster</b>	<b>56</b>	<b>100</b>	32.5	58.0	32.5	58.0	36.9	65.9
<b>Literary Text</b>	<b>28</b>	<b>50</b>	15.9	56.8	15.9	56.8	18.3	65.4
<b>Informational Text</b>	<b>28</b>	<b>50</b>	16.6	59.3	16.6	59.3	18.6	66.4

The Maine *Learning Results* reading cluster includes Content Standards A (Process of Reading), B (Literature and Culture), and D (Informational Texts). The MEA assesses students’ reading skills based on questions related to two types of reading passages: literary and informational. Passages include both long and short texts, selected from developmentally appropriate works. Items on the MEA measure Grade Level Expectations, based on Maine’s 1997 *Learning Results*, which can be found at <http://www.maine.gov/education/lsalt/gles.htm>.



# ELA-READING RESULTS

## (CONTINUED)

Test Date: March 2008  
 Grade: 8  
 SAU: MSAD 20  
 School: Fort Fairfield Middle/High Sch

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
<b>All Students</b>	50	6	12	21	42	13	26	10	20	842	50	12	42	26	20	842	14924	23	48	18	11	849
<b>Ethnicity</b>																						
African American/Black	1										1						348	11	38	22	29	840
American Indian or Native Alaskan	0										0						117	9	43	29	19	842
Asian or Pacific Islander	0										0						179	32	39	18	11	852
Hispanic	0										0						131	18	38	27	17	846
Caucasian/White	49	6	12	21	43	13	27	9	18	843	49	12	43	27	18	843	14149	23	49	18	10	850
Not Reported	0										0						0					
<b>Identified disability</b>																						
Yes	8	1	13	0	0	2	25	5	63	829	8	13	0	25	63	829	2269	3	24	32	42	833
No	42	5	12	21	50	11	26	5	12	845	42	12	50	26	12	845	12655	27	52	16	5	852
<b>Current LEP</b>																						
Yes	0										0						308	8	30	27	34	837
No	50	6	12	21	42	13	26	10	20	842	50	12	42	26	20	842	14616	23	48	18	10	850
<b>Economically disadvantaged</b>																						
Yes	22	2	9	8	36	6	27	6	27	840	22	9	36	27	27	840	5222	12	44	25	19	843
No	28	4	14	13	46	7	25	4	14	844	28	14	46	25	14	844	9702	29	50	14	7	853
<b>Migrant</b>																						
Yes	0										0						7	0	86	0	14	850
No	50	6	12	21	42	13	26	10	20	842	50	12	42	26	20	842	14917	23	48	18	11	849
<b>Gender</b>																						
Female	20	4	20	9	45	4	20	3	15	846	20	20	45	20	15	846	7198	30	48	15	7	853
Male	30	2	7	12	40	9	30	7	23	840	30	7	40	30	23	840	7726	17	49	21	14	847
Not Reported	0										0						0					
<b>Title 1A targeted program</b>																						
Yes	30	0	0	11	37	12	40	7	23	838	30	0	37	40	23	838	807	9	41	32	18	842
No	20	6	30	10	50	1	5	3	15	849	20	30	50	5	15	849	14117	24	49	17	10	850
<b>Gifted/talented program</b>																						
Yes	0										0						592	71	28	1	0	867
No	50	6	12	21	42	13	26	10	20	842	50	12	42	26	20	842	14332	21	49	19	11	849

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

# ELA–READING RESULTS

## (QUESTIONNAIRE ITEMS)

Test Date: March 2008  
Grade: 8  
SAU: MSAD 20  
School: Fort Fairfield Middle/High Sch

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
		%	N	%	N	%	N	%	N			%	%	%	%			%	%	%	%	
<b>How much homework do you do on school nights?</b> A. none B. less than one hour C. one to two hours D. more than two hours	20 39 33 8	1 2 2 1	10 11 13 25	4 11 4 2	40 58 25 50	3 4 6 0	30 21 38 0	2 2 4 1	20 11 25 25	843 845 841 843	20 39 33 8	10 11 13 25	40 58 25 50	30 21 38 0	20 11 25 25	843 845 841 843	9 46 41 5	10 20 28 28	39 50 49 44	24 20 15 15	26 11 7 12	841 849 852 850
<b>How well do the questions that you have just been given on this MEA test match what you have learned in school about reading?</b> A. The questions on the test match what I have learned in reading class. B. They match some of what I have learned. C. They match just a little of what I have learned. D. There is no match.	29 53 16 2	3 3 0 0	21 12 0 0	8 11 2 0	57 42 25 0	2 8 3 0	14 31 38 0	1 4 3 1	7 15 38 100	849 843 835 816	29 53 16 2	21 12 0 0	57 42 25 0	14 31 38 0	7 15 38 100	849 843 835 816	33 53 11 3	31 21 14 6	48 51 41 34	14 19 25 26	7 9 20 35	853 849 844 836
<b>Which of the following best describes how you rate yourself as a student in reading?</b> A. very good B. good C. fair D. poor	18 53 29 0	2 4 0 0	22 15 0 0	3 13 5 0	33 50 36 0	1 8 4 0	11 31 29 0	3 1 5 0	33 4 36 0	842 847 835 0	18 53 29 0	22 15 0 0	33 50 36 0	11 31 29 0	33 4 36 0	842 847 835 0	31 49 18 2	42 19 5 4	44 54 42 29	8 19 31 32	6 9 22 34	857 849 840 835
<b>How difficult was the reading part of this test?</b> A. harder than my regular schoolwork B. about the same as my regular schoolwork C. easier than my regular schoolwork	17 71 13	0 6 0	0 18 0	2 13 5	25 38 83	2 10 1	25 29 17	4 5 0	50 15 0	831 844 850	17 71 13	0 18 0	25 38 83	25 29 17	50 15 0	831 844 850	15 65 19	16 23 30	44 49 49	22 18 14	18 9 8	845 850 852
<b>How difficult were the reading passages on this test?</b> A. Most of the passages were more difficult than what I normally read. B. Most of the passages were about the same as what I normally read. C. Most of the passages were easier than what I normally read.	15 66 19	1 4 1	14 13 11	2 12 5	29 39 56	1 10 2	14 32 22	3 5 1	43 16 11	837 843 847	15 66 19	14 13 11	29 39 56	14 32 22	43 16 11	837 843 847	9 53 38	8 17 36	33 51 48	28 21 11	31 11 5	838 848 855
<b>How hard did you try on the reading part of this test?</b> A. I tried harder on this test than I do on my regular schoolwork. B. I tried about the same as I do on my regular schoolwork. C. I did not try as hard on this test as I do on my regular schoolwork.	38 55 6	1 4 0	6 15 0	8 11 1	44 42 33	7 5 1	39 19 33	2 6 1	11 23 33	842 843 836	38 55 6	6 15 0	44 42 33	39 19 33	11 23 33	842 843 836	43 51 6	23 25 9	48 49 43	19 17 24	10 9 23	849 851 842
<b>How much time do you spend reading at home each day?</b> A. more than one hour B. 20 minutes to an hour C. less than 20 minutes D. I rarely read at home.	10 31 16 43	0 2 1 3	0 13 13 14	3 5 5 8	60 33 63 38	1 6 0 6	20 40 0 29	1 2 2 4	20 13 25 19	840 843 845 843	10 31 16 43	0 13 13 14	60 33 63 38	20 40 0 29	20 13 25 19	840 843 845 843	18 41 13 28	31 28 20 12	47 49 49 47	13 15 18 26	9 7 12 16	852 852 848 844
<b>How do you feel about the following statement?</b> <i>“My knowledge of reading will be useful to me as an adult.”</i> A. strongly agree B. agree C. disagree D. strongly disagree	24 63 6 6	2 4 0 0	17 13 0 0	8 10 1 2	67 32 33 67	1 10 2 0	8 32 67 0	1 7 0 1	8 23 0 33	848 841 843 839	24 63 6 6	17 13 0 0	67 32 33 67	8 23 0 0	8 23 0 33	848 841 843 839	43 48 6 2	31 18 11 6	48 50 43 36	14 20 24 32	7 12 21 26	853 848 843 839
<b>Optional school/SAU question</b> A. B. C. D.	0 100 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 1 0 0	100 0 0 0	828 0 0 0	0 100 0 0	0 0 0 0	0 0 0 0	0 0 0 0	100 0 0 0	828 0 0 0						

# MATHEMATICS RESULTS

Test Date: March 2008  
Grade: 8  
SAU: MSAD 20  
School: Fort Fairfield Middle/High Sch

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
<b>Exceeds the Standards</b> – The student’s work demonstrates in-depth understanding of essential concepts in mathematics, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information; analyze and solve difficult problems, including developing and implementing strategies, efficiently and accurately performing procedures, and recording and justifying solutions; and explain complex concepts. (scaled score 861–880)	2005-2006	3	8	3	8	1714	11
	2006-2007	2	5	2	5	1952	13
	<b>2007-2008</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1657</b>	<b>11</b>
	Cum. Total*	5	4	5	4	5323	11
<b>Meets the Standards</b> – The student’s work demonstrates a general understanding of essential concepts in mathematics, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve problems including developing and implementing strategies, to perform procedures, and to record and explain solutions and concepts. The student’s work may contain minor errors. (scaled score 841–860)	2005-2006	12	31	12	31	5533	34
	2006-2007	18	43	18	43	5870	38
	<b>2007-2008</b>	<b>10</b>	<b>20</b>	<b>10</b>	<b>20</b>	<b>5956</b>	<b>40</b>
	Cum. Total*	40	31	40	31	17359	37
<b>Partially Meets the Standards</b> – The student’s work demonstrates incomplete understanding of essential concepts in mathematics and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems, and explain concepts. Problem solving strategies may be flawed, procedures performed inaccurately, methods not recorded and/or problems not completed. (scaled score 829–840)	2005-2006	15	38	15	38	4764	29
	2006-2007	7	17	7	17	3982	26
	<b>2007-2008</b>	<b>20</b>	<b>40</b>	<b>20</b>	<b>40</b>	<b>3729</b>	<b>25</b>
	Cum. Total*	42	32	42	32	12475	27
<b>Does Not Meet the Standards</b> – The student’s work demonstrates limited understanding of essential concepts in mathematics and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems and explain concepts. Problem solving strategies and procedures are often flawed or inappropriate and there may be many omissions. (scaled score 800–828)	2005-2006	9	23	9	23	4251	26
	2006-2007	15	36	15	36	3534	23
	<b>2007-2008</b>	<b>20</b>	<b>40</b>	<b>20</b>	<b>40</b>	<b>3579</b>	<b>24</b>
	Cum. Total*	44	34	44	34	11364	24

Learning Results Content Standard Clusters	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Cluster 1: Numbers and Operations	16	29	6.8	42.5	6.8	42.5	8.4	52.5
Cluster 2: Shape and Size	14	25	4.2	30.0	4.2	30.0	5.9	42.1
Cluster 3: Mathematical Decision Making	8	14	4.0	50.0	4.0	50.0	4.6	57.5
Cluster 4: Patterns	18	32	6.0	33.3	6.0	33.3	8.9	49.4

- Cluster 1: Numbers and Operations**  
A. Numbers and Number Sense  
B. Computation  
I. Discrete Mathematics (grades 3 and 4 only)
- Cluster 2: Shape and Size**  
E. Geometry  
F. Measurement
- Cluster 3: Mathematical Decision Making**  
C. Data Analysis and Statistics  
D. Probability
- Cluster 4: Patterns**  
G. Patterns, Relations, and Functions  
H. Algebra Concepts  
K. Mathematical Communication

Each content standard in the clusters above is defined in Maine’s 1997 *Learning Results*, which are the basis for Grade Level Expectations. Each item on the MEA measures a grade level expectation, which can be found at <http://www.maine.gov/education/lsalt/gles.htm>.



# MATHEMATICS RESULTS

## (CONTINUED)

Test Date: March 2008  
 Grade: 8  
 SAU: MSAD 20  
 School: Fort Fairfield Middle/High Sch

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
<b>All Students</b>	50	0	0	10	20	20	40	20	40	831	50	0	20	40	40	831	14921	11	40	25	24	841
<b>Ethnicity</b>																						
African American/Black	1										1						352	2	23	23	52	828
American Indian or Native Alaskan	0										0						117	5	22	33	39	832
Asian or Pacific Islander	0										0						181	24	42	20	14	848
Hispanic	0										0						131	7	34	26	33	836
Caucasian/White	49	0	0	10	20	20	41	19	39	831	49	0	20	41	39	831	14140	11	41	25	23	841
Not Reported	0										0						0					
<b>Identified disability</b>																						
Yes	8	0	0	0	0	2	25	6	75	814	8	0	0	25	75	814	2265	1	14	22	62	824
No	42	0	0	10	24	18	43	14	33	834	42	0	24	43	33	834	12656	13	45	26	17	844
<b>Current LEP</b>																						
Yes	0										0						315	5	24	20	51	828
No	50	0	0	10	20	20	40	20	40	831	50	0	20	40	40	831	14606	11	40	25	23	841
<b>Economically disadvantaged</b>																						
Yes	22	0	0	1	5	8	36	13	59	824	22	0	5	36	59	824	5217	5	30	29	37	834
No	28	0	0	9	32	12	43	7	25	836	28	0	32	43	25	836	9704	15	45	23	17	845
<b>Migrant</b>																						
Yes	0										0						7	0	43	43	14	838
No	50	0	0	10	20	20	40	20	40	831	50	0	20	40	40	831	14914	11	40	25	24	841
<b>Gender</b>																						
Female	20	0	0	5	25	8	40	7	35	833	20	0	25	40	35	833	7199	11	40	26	23	841
Male	30	0	0	5	17	12	40	13	43	829	30	0	17	40	43	829	7722	11	40	24	25	841
Not Reported	0										0						0					
<b>Title 1A targeted program</b>																						
Yes	30	0	0	0	0	14	47	16	53	826	30	0	0	47	53	826	806	3	20	30	47	831
No	20	0	0	10	50	6	30	4	20	838	20	0	50	30	20	838	14115	12	41	25	23	842
<b>Gifted/talented program</b>																						
Yes	0										0						592	58	39	2	1	864
No	50	0	0	10	20	20	40	20	40	831	50	0	20	40	40	831	14329	9	40	26	25	840

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number



# MATHEMATICS RESULTS

## (QUESTIONNAIRE ITEMS)

Test Date: March 2008  
Grade: 8  
SAU: MSAD 20  
School: Fort Fairfield Middle/High Sch

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
<b>How much homework do you do on school nights?</b>																						
A. none	20	0	0	2	20	6	60	2	20	832	20	0	20	60	20	832	9	5	30	23	41	833
B. less than one hour	39	0	0	1	5	11	58	7	37	831	39	0	5	58	37	831	46	10	40	26	25	840
C. one to two hours	33	0	0	4	25	3	19	9	56	829	33	0	25	19	56	829	41	14	42	25	19	843
D. more than two hours	8	0	0	3	75	0	0	1	25	841	8	0	75	0	25	841	5	14	38	23	24	842
<b>How well do the questions that you have just been given on this MEA test match what you have learned in school about mathematics?</b>																						
A. The questions on the test match what I have learned in mathematics class.	27	0	0	3	23	5	38	5	38	834	27	0	23	38	38	834	30	17	43	22	18	845
B. They match some of what I have learned.	39	0	0	4	21	7	37	8	42	830	39	0	21	37	42	830	50	10	42	26	22	841
C. They match just a little of what I have learned.	29	0	0	2	14	7	50	5	36	828	29	0	14	50	36	828	17	6	32	29	33	836
D. There is no match.	6	0	0	1	33	1	33	1	33	839	6	0	33	33	33	839	4	3	18	25	54	828
<b>Which of the following best describes how you rate yourself as a student in mathematics?</b>																						
A. very good	18	0	0	3	33	2	22	4	44	836	18	0	33	22	44	836	26	29	46	14	11	851
B. good	41	0	0	5	25	7	35	8	40	832	41	0	25	35	40	832	45	7	46	27	20	841
C. fair	35	0	0	2	12	8	47	7	41	827	35	0	12	47	41	827	23	1	26	34	38	833
D. poor	6	0	0	0	0	3	100	0	0	837	6	0	0	100	0	837	5	1	14	29	57	827
<b>How difficult was the mathematics part of this test?</b>																						
A. harder than my regular schoolwork	50	0	0	3	13	10	42	11	46	828	50	0	13	42	46	828	34	4	35	28	32	836
B. about the same as my regular schoolwork	42	0	0	6	30	8	40	6	30	836	42	0	30	40	30	836	52	10	43	26	21	842
C. easier than my regular schoolwork	8	0	0	1	25	1	25	2	50	828	8	0	25	25	50	828	13	33	40	14	13	852
<b>How hard did you try on the mathematics part of this test?</b>																						
A. I tried harder on this test than I do on my regular schoolwork.	53	0	0	3	12	12	48	10	40	830	53	0	12	48	40	830	44	10	40	26	25	840
B. I tried about the same as I do on my regular schoolwork.	40	0	0	7	37	6	32	6	32	836	40	0	37	32	32	836	50	13	42	24	21	843
C. I did not try as hard on this test as I do on my regular schoolwork.	6	0	0	0	0	1	33	2	67	816	6	0	0	33	67	816	6	9	27	27	38	835
<b>How often do you use laptops in mathematics class?</b>																						
A. almost every day	18	0	0	0	0	2	22	7	78	814	18	0	0	22	78	814	9	6	38	27	29	837
B. two or three days a week	8	0	0	1	25	1	25	2	50	826	8	0	25	25	50	826	16	8	38	27	27	839
C. two or three times each month	33	0	0	3	19	7	44	6	38	832	33	0	19	44	38	832	28	12	41	27	21	843
D. never or almost never	41	0	0	6	30	10	50	4	20	840	41	0	30	50	20	840	48	13	40	23	24	842
<b>How often do you use calculators in mathematics class?</b>																						
A. almost every day	67	0	0	7	21	15	45	11	33	834	67	0	21	45	33	834	38	14	42	23	21	843
B. two or three times a week	29	0	0	3	21	5	36	6	43	827	29	0	21	36	43	827	33	10	41	26	23	841
C. two or three times each month	2	0	0	0	0	0	0	1	100	826	2	0	0	0	100	826	18	10	36	27	27	840
D. never or almost never	2	0	0	0	0	0	0	1	100	800	2	0	0	0	100	800	11	7	34	26	33	836
<b>How do you feel about the following statement?</b> <i>"My knowledge of mathematics will be useful to me as an adult."</i>																						
A. strongly agree	37	0	0	6	33	5	28	7	39	835	37	0	33	28	39	835	54	14	44	23	18	844
B. agree	55	0	0	3	11	15	56	9	33	831	55	0	11	56	33	831	38	8	36	27	28	838
C. disagree	8	0	0	1	25	0	0	3	75	819	8	0	25	0	75	819	6	6	31	28	36	835
D. strongly disagree	0										0						2	3	23	25	49	831
<b>Optional school/SAU question</b>																						
A.	0										0											
B.	100	0	0	0	0	0	0	1	100	824	100	0	0	0	100	824						
C.	0										0											
D.	0										0											

# SCIENCE AND TECHNOLOGY RESULTS

Test Date: March 2008  
Grade: 8  
SAU: MSAD 20  
School: Fort Fairfield Middle/High Sch

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
<b>Exceeds the Standards</b> – The student’s work demonstrates in-depth understanding of essential concepts in science, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information, analyze and solve difficult problems using the processes of scientific inquiry, and explain complex concepts using evidence and proper terminology to support and communicate logical conclusions. (scaled score 861–880)	2005-2006	5	13	5	13	1879	12
	2006-2007	1	2	1	2	2192	14
	<b>2007-2008</b>	<b>3</b>	<b>6</b>	<b>3</b>	<b>6</b>	<b>2371</b>	<b>16</b>
	Cum. Total*	9	7	9	7	6442	14
<b>Meets the Standards</b> – The student’s work demonstrates a general understanding of essential concepts in science, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve routine problems using the processes of scientific inquiry and explain central concepts with sufficient clarity and accuracy to demonstrate general understanding. (scaled score 841–860)	2005-2006	18	46	18	46	8604	53
	2006-2007	21	49	21	49	7916	52
	<b>2007-2008</b>	<b>23</b>	<b>46</b>	<b>23</b>	<b>46</b>	<b>7630</b>	<b>51</b>
	Cum. Total*	62	47	62	47	24150	52
<b>Partially Meets the Standards</b> – The student’s work demonstrates incomplete understanding of essential concepts in science and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems using scientific inquiry but the quality of responses is inconsistent. Explanation of concepts may be incomplete or unclear. (scaled score 831–840)	2005-2006	10	26	10	26	3618	22
	2006-2007	11	26	11	26	3340	22
	<b>2007-2008</b>	<b>12</b>	<b>24</b>	<b>12</b>	<b>24</b>	<b>3175</b>	<b>21</b>
	Cum. Total*	33	25	33	25	10133	22
<b>Does Not Meet the Standards</b> – The student’s work demonstrates limited understanding of essential concepts in science and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems and use the skills of scientific inquiry. There are many inaccuracies and explanations are illogical, incomplete, or missing. (scaled score 800–830)	2005-2006	6	15	6	15	2174	13
	2006-2007	10	23	10	23	1865	12
	<b>2007-2008</b>	<b>12</b>	<b>24</b>	<b>12</b>	<b>24</b>	<b>1731</b>	<b>12</b>
	Cum. Total*	28	21	28	21	5770	12

Learning Results Content Standard Clusters	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Cluster 1: Life Sciences	14	25	7.1	50.7	7.1	50.7	8.1	57.9
Cluster 2: Physical Sciences	14	25	6.4	45.7	6.4	45.7	7.3	52.1
Cluster 3: Earth and Space Sciences	14	25	6.7	47.9	6.7	47.9	7.7	55.0
Cluster 4: Nature and Implications of Science	14	25	7.2	51.4	7.2	51.4	8.5	60.7

## Cluster 1: Life Sciences

- A. Classifying Life Forms
- B. Ecology
- C. Cells

## Cluster 2: Physical Sciences

- E. Structure of Matter
- H. Energy
- I. Motion

## Cluster 3: Earth and Space Sciences

- D. Continuity and Change
- F. The Earth
- G. The Universe

## Cluster 4: Nature and Implications of Science

- J. Inquiry and Problem Solving
- K. Scientific Reasoning
- L. Communication
- M. Implications of Science & Technology

Each content standard in the clusters shown is defined in Maine’s 1997 *Learning Results*, which are the basis for science and technology Grade Span Expectations. Each item on the MEA measures a grade span expectation, which can be found at <http://www.maine.gov/education/lslat/gles.htm>.

# SCIENCE AND TECHNOLOGY RESULTS

(CONTINUED)

Test Date: March 2008  
Grade: 8  
SAU: MSAD 20  
School: Fort Fairfield Middle/High Sch

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
<b>All Students</b>	50	3	6	23	46	12	24	12	24	841	50	6	46	24	24	841	14907	16	51	21	12	847
<b>Ethnicity</b>																						
African American/Black	1										1						349	4	35	26	34	837
American Indian or Native Alaskan	0										0						117	8	40	28	24	840
Asian or Pacific Islander	0										0						181	20	50	15	15	849
Hispanic	0										0						131	5	50	22	23	842
Caucasian/White	49	3	6	23	47	12	24	11	22	842	49	6	47	24	22	842	14129	16	52	21	11	848
Not Reported	0										0						0					
<b>Identified disability</b>																						
Yes	8	0	0	1	13	2	25	5	63	828	8	0	13	25	63	828	2258	3	29	31	37	836
No	42	3	7	22	52	10	24	7	17	844	42	7	52	24	17	844	12649	18	55	20	7	850
<b>Current LEP</b>																						
Yes	0										0						315	4	29	25	42	834
No	50	3	6	23	46	12	24	12	24	841	50	6	46	24	24	841	14592	16	52	21	11	848
<b>Economically disadvantaged</b>																						
Yes	22	1	5	7	32	7	32	7	32	837	22	5	32	32	32	837	5206	8	45	28	20	842
No	28	2	7	16	57	5	18	5	18	845	28	7	57	18	18	845	9701	20	55	18	7	850
<b>Migrant</b>																						
Yes	0										0						7	29	57	14	0	852
No	50	3	6	23	46	12	24	12	24	841	50	6	46	24	24	841	14900	16	51	21	12	847
<b>Gender</b>																						
Female	20	1	5	11	55	3	15	5	25	841	20	5	55	15	25	841	7196	14	52	23	12	847
Male	30	2	7	12	40	9	30	7	23	841	30	7	40	30	23	841	7711	18	51	20	12	848
Not Reported	0										0						0					
<b>Title 1A targeted program</b>																						
Yes	30	1	3	9	30	12	40	8	27	838	30	3	30	40	27	838	804	6	38	34	22	841
No	20	2	10	14	70	0	0	4	20	847	20	10	70	0	20	847	14103	16	52	21	11	848
<b>Gifted/talented program</b>																						
Yes	0										0						592	63	35	1	0	865
No	50	3	6	23	46	12	24	12	24	841	50	6	46	24	24	841	14315	14	52	22	12	847

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

# SCIENCE AND TECHNOLOGY RESULTS

## (QUESTIONNAIRE ITEMS)

Test Date: March 2008  
Grade: 8  
SAU: MSAD 20  
School: Fort Fairfield Middle/High Sch

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
<b>How much homework do you do on school nights?</b>																						
A. none	20	2	20	2	20	4	40	2	20	843	20	20	20	40	20	843	9	10	40	26	23	842
B. less than one hour	39	0	0	12	63	3	16	4	21	843	39	0	63	16	21	843	46	14	52	22	12	847
C. one to two hours	33	1	6	6	38	4	25	5	31	839	33	6	38	25	31	839	41	19	53	19	9	849
D. more than two hours	8	0	0	3	75	1	25	0	0	847	8	0	75	25	0	847	5	19	47	21	14	848
<b>How well do the questions that you have just been given on this MEA test match what you have learned in school about science?</b>																						
A. The questions on the test match what I have learned in science class.	29	1	7	7	50	3	21	3	21	844	29	7	50	21	21	844	29	19	54	19	9	849
B. They match some of what I have learned.	61	2	7	14	47	8	27	6	20	842	61	7	47	27	20	842	49	16	51	22	11	848
C. They match just a little of what I have learned.	8	0	0	2	50	1	25	1	25	838	8	0	50	25	25	838	18	13	51	23	13	846
D. There is no match.	2	0	0	0	0	0	0	1	100	822	2	0	0	0	100	822	5	9	39	29	23	842
<b>Which of the following best describes how you rate yourself as a student in science?</b>																						
A. very good	10	0	0	3	60	1	20	1	20	843	10	0	60	20	20	843	23	28	51	13	8	853
B. good	67	3	9	17	52	6	18	7	21	844	67	9	52	18	21	844	54	15	55	21	9	848
C. fair	20	0	0	3	30	5	50	2	20	838	20	0	30	50	20	838	20	5	45	32	18	842
D. poor	2	0	0	0	0	0	0	1	100	822	2	0	0	0	100	822	3	2	35	34	29	838
<b>How difficult was the science part of this test?</b>																						
A. harder than my regular schoolwork	19	0	0	3	33	1	11	5	56	834	19	0	33	11	56	834	27	15	49	22	14	846
B. about the same as my regular schoolwork	64	1	3	16	53	8	27	5	17	842	64	3	53	27	17	842	59	15	53	22	10	848
C. easier than my regular schoolwork	17	2	25	4	50	1	13	1	13	851	17	25	50	13	13	851	13	21	51	18	10	850
<b>How hard did you try on the science part of this test?</b>																						
A. I tried harder on this test than I do on my regular schoolwork.	44	1	5	11	52	3	14	6	29	841	44	5	52	14	29	841	40	15	51	22	12	847
B. I tried about the same as I do on my regular schoolwork.	52	2	8	12	48	6	24	5	20	843	52	8	48	24	20	843	55	17	53	21	10	848
C. I did not try as hard on this test as I do on my regular schoolwork.	4	0	0	0	0	2	100	0	0	837	4	0	0	100	0	837	5	12	41	25	22	843
<b>Which courses do you plan to take before you graduate from high school?</b>																						
A. earth and space science and/or biology	27	1	8	6	46	2	15	4	31	839	27	8	46	15	31	839	25	11	53	23	13	846
B. the course(s) described in A, plus chemistry	27	1	8	5	38	5	38	2	15	843	27	8	38	38	15	843	24	18	53	20	10	849
C. the course(s) described in B, plus physics	21	0	0	6	60	1	10	3	30	843	21	0	60	10	30	843	22	30	47	14	8	853
D. a life science and physical science class	25	1	8	6	50	3	25	2	17	843	25	8	50	25	17	843	29	8	52	27	14	844
<b>How do you feel about the following statement?</b> <i>"My knowledge of science and technology will be useful to me as an adult."</i>																						
A. strongly agree	21	1	10	6	60	1	10	2	20	846	21	10	60	10	20	846	27	23	51	17	9	851
B. agree	65	2	6	15	48	9	29	5	16	843	65	6	48	29	16	843	54	15	53	21	11	847
C. disagree	8	0	0	2	50	0	0	2	50	835	8	0	50	0	50	835	15	10	50	26	14	845
D. strongly disagree	6	0	0	0	0	1	33	2	67	829	6	0	0	33	67	829	4	7	39	30	24	841
<b>How well does the following statement reflect your future goals?</b> <i>"I am interested in a career related to science, technology, engineering, or mathematics."</i>																						
A. strongly agree	20	0	0	7	70	3	30	0	0	849	20	0	70	30	0	849	25	24	52	15	8	851
B. agree	55	2	7	14	52	7	26	4	15	843	55	7	52	26	15	843	37	15	50	22	12	847
C. disagree	16	1	13	1	13	1	13	5	63	833	16	13	13	13	63	833	26	12	53	23	12	846
D. strongly disagree	8	0	0	1	25	1	25	2	50	833	8	0	25	25	50	833	12	8	48	28	15	844
<b>Optional school/SAU question</b>																						
A.	0										0											
B.	100	0	0	0	0	1	100	0	0	838	100	0	0	100	0	838						
C.	0										0											
D.	0										0											

E = Exceeds the Standards    M = Meets the Standards    P = Partially Meets the Standards    D = Does Not Meet the Standards  
N = Number